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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/184,043		11/02/1998	HANS HORNAUER	P564-8023 3802	
6449	7590	04/12/2006		EXAMINER	
	•	G, ERNST & M.	CEPERLEY, MARY		
1425 K STREET, N.W. SUITE 800				ART UNIT	PAPER NUMBER
WASHING	WASHINGTON, DC 20005				

DATE MAILED: 04/12/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	09/184,043	HORNAUER ET AL.					
Office Action Summary	Examiner	Art Unit					
	Mary (Molly) E. Ceperley	1641					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 31 Ju	Responsive to communication(s) filed on <u>31 July 2003 and 30 December 2005</u> .						
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>14 and 60-77</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>14 and 60-77</u> is/are rejected.							
7) Claim(s) is/are objected to.							
Application Papers							
9) The specification is objected to by the Examiner.							
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>							
Attachment(s)	_						
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4(14)	Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te atent Application (PTO-152)					

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1) The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2) Claims 14 and 60-77 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the preparation and use of certain assay formats, does not reasonably provide enablement for the entire scope of formats encompassed by claim 14.

The December 30, 2005 schematic diagram of the invention and the discussion of this diagram indicate that "preformed" biotin-antibody-PEG conjugates having a specific configuration will work for the purpose of protecting the antibody from unspecific interactions {schematic, section I)}. Claim 14, however, is not limited to the use of an "antibody" as the "analyte-specific reactant" {term includes an antigen or avidin} and it is not clear that other "analyte-specific reactants" would possess the geometry required for the assay to function as shown. It is not clear that protection from unspecific interactions would be provided for the antigen component of a conjugate of a single epitope antigen with a single conjugated PEG group nor would it appear that a configuration in which the PEG was attached directly to a biotin moiety would work. It also appears from the schematic that the assay would not be operable in the absence of the avidin-biotin binding shown {a requirement in addition to the binding of the "analyte" with the "analyte-specific reactant" as recited in claim 14}. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention commensurate in scope with these claims.

*3)* Claims 14 and 60-77 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the

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inventor(s), at the time the application was filed, had possession of the claimed invention. There appears to be no description in the specification of the "preformed conjugate" comprised of PEG and one member of a specific ligand binding pair used as a component of a solid phase assay system. The Remarks of July 31, 2003 contain references to certain sections of the specification as supporting the preparation and use of the "preformed conjugates". However, none of these sections actually discloses the material in question. See for example, Remarks, page 7, citing Example 10 which does <u>not</u> use a PEG conjugate. Examples 13 and 14 apparently use the format of Example 12; however, the exact format of Example 12 is unclear and it is also unclear if the Example 12 format is the same as that recited in claim 14.

4) The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

*5)* Claims 60 and 61 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 60 requires that the "analyte specific <u>reactant</u>" be conjugated with the "second member". It is unclear exactly when this conjugation occurs relative to the preparation of the "preformed <u>conjugate</u>" recited in claim 14.

6) Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mary (Molly) E. Ceperley whose telephone number is (571) 272-0813. The examiner can normally be reached from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Long V. Le, can be reached on (571) 272-0823. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 11, 2006

Mary E. Ceperley
Mary (Molly) E. Ceperley

Primary Examiner Art Unit 1641